



# CALIFORNIA

## Agricultural Bulletin

**EDD** Employment  
Development  
Department  
State of California

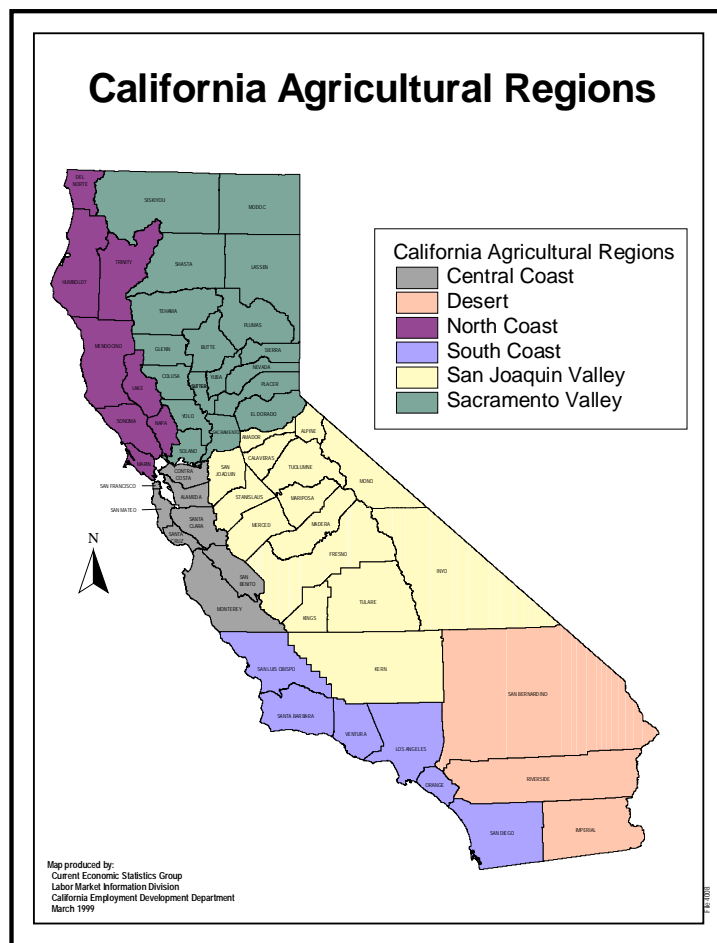
November 1999  
(Internet Version)

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### Agricultural Overview

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

**LMID**  
Labor Market Information Division  
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## Introduction

The California Agricultural Bulletin is produced by the Employment Development Department (EDD) in cooperation with the U.S. Department of Agriculture and through a grant from the U.S. Department of Labor. Because of changes in sampling and estimating procedures, farm employment data published by EDD prior to January 1997 may not be strictly comparable to current estimates.

## Summary

### Employment

California agricultural employment for November 1999 registered a decrease of 89,200 jobs from the previous month, a loss of 20 percent. Decreases were registered in Agricultural Production and in Agricultural Services, which is normal for the month as weather patterns change and harvest activity slows. The change in California agricultural employment from October 1998 to November 1998 was a decrease of 69,800 jobs. From October 1999 to November 1999, Production/Crops registered a decrease of 61,000 jobs, a drop of 25 percent. Agricultural Services registered a decrease of 27,500 jobs, a loss of 16 percent. Total California agricultural employment for November 1999 decreased 18,800 jobs from the prior year level.

Vegetable and Melon crops had a significant rate of employment change with a decline of 40 percent from the previous month. Among Vegetable and Melon crops, the largest decrease occurred in the San Joaquin Valley where a decline of 27,800 jobs was registered. Tree Nut crops also experienced a significant rate of change in employment with a decrease of 50 percent statewide. Declines in employment were registered in all categories of Agricultural Services except Cotton Ginning, which registered an increase of 50 percent.

### Production and Crop Activity

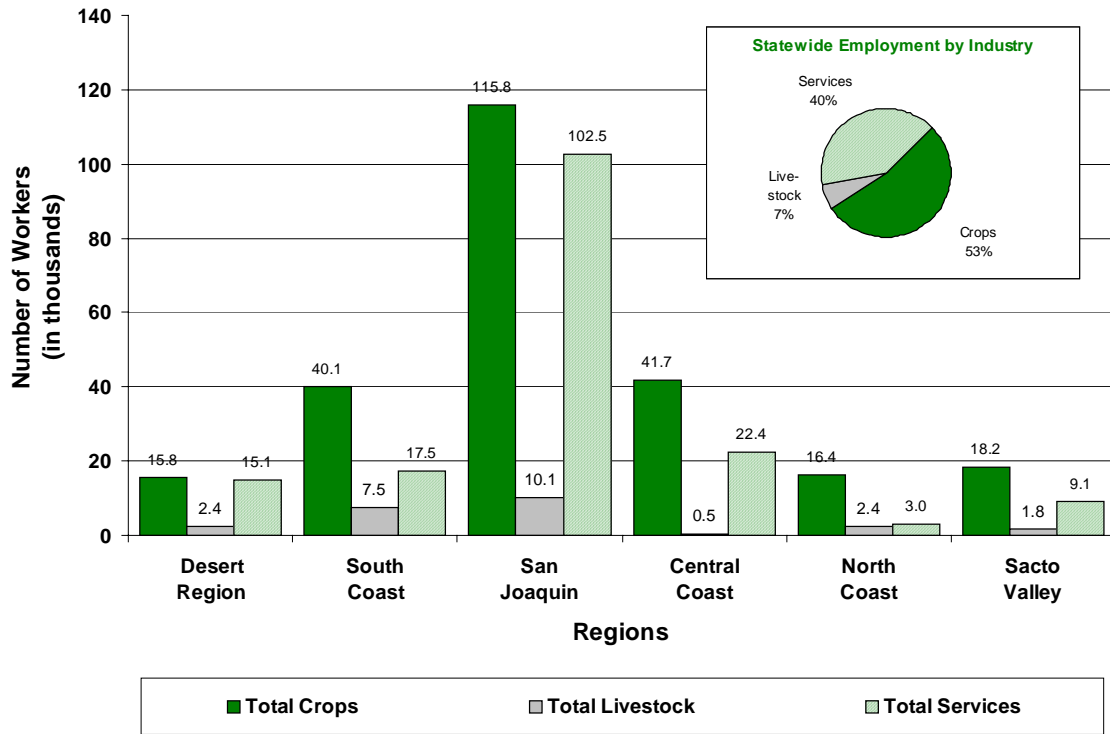
Field activities were delayed by rain during the first half of the month but made good progress during the second half. The harvesting of corn for grain, cotton and tomatoes was virtually complete. Growers were second picking cotton fields in the San Joaquin Valley. Harvested cotton fields were shredded and disced for bollworm control. Harvested cornfields were being prepared for spring planting. Growers began planting spring lettuce, carrots, onions, wheat, barley, and new crop sugarbeets. Fallow, alfalfa, clover, and oat fields were sprayed for weeds. Wheat fields were fertilized. Strawberry growers were weeding fields and trimming runners. Alfalfa and sudangrass were cut for hay or greenchopped. Vegetable growers started preparing hothouses for the winter season. Work crews were busy harvesting sugarbeets, squash, sweet corn, bittermelon, green beans, cucumbers, peppers, sweet potatoes, eggplant, okra, radishes, carrots, cabbage, turnips, pumpkins, parsley, mint, cauliflower, mustard greens, cilantro, and peas.

Pruning, tree removal, planting of cover crops and other such work was active in harvested stone fruit orchards. Growers were fumigating the ground in preparation for new plantings of peach, prune, walnut, and almond trees. Olive and kiwifruit harvests were in full swing. The harvesting of pecans, pomegranate, persimmons, and quince was very active in the San Joaquin Valley. Grape picking was nearly completed although some table grapes and Coastal area grapes destined for wineries were still being picked. Grapefruit and lemons were picked in southern California as the harvest of new crop navel oranges and tangerines gained momentum in the San Joaquin Valley.

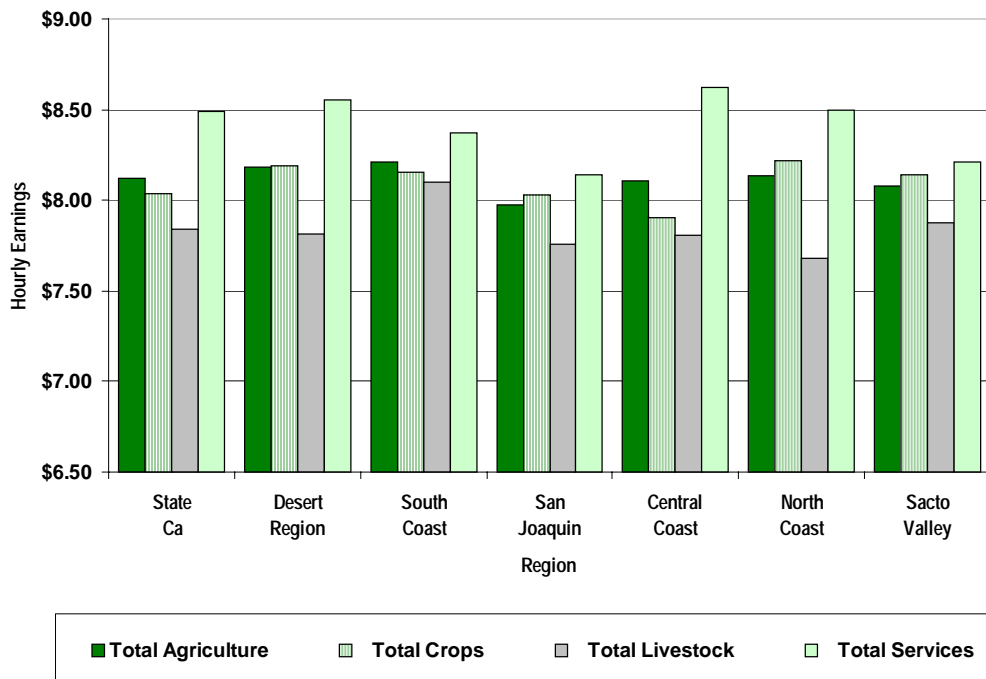
Normal winter feeding of cattle was underway and calving continued. Turkeys were shipped for the Thanksgiving holiday and beekeepers prepared hives for the winter.

# Agricultural Summary Charts

## Wage and Salary Workers



## Average Hourly Earnings



# CALIFORNIA AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>353.1</b>	<b>442.3</b>	<b>371.9</b>
<b>Total Agricultural Production/Crops</b>	<b>187.0</b>	<b>248.0</b>	<b>185.1</b>
Cash Grains	3.7	3.4	2.4
Rice	0.6	1.4	1.4
Other Cash Grains	3.1	2.0	1.0
Field Crops Except Grains	10.9	14.7	12.7
Cotton	2.5	3.9	7.1
Other Field Crops	8.4	10.8	5.6
Vegetables and Melons	44.3	73.5	31.7
Total Fruits and Tree Nuts	61.9	93.0	80.1
Berries	9.3	12.8	12.8
Grapes	24.5	36.6	29.0
Tree Nuts	6.4	12.8	10.2
Citrus Fruits	1.4	2.0	6.0
Deciduous Tree Fruit	6.4	7.3	13.2
Other Fruits & Nuts	13.9	21.5	8.9
Total Horticultural Specialties	38.1	38.7	34.1
Ornamental Floral & Nursery	33.8	34.7	30.7
Food Crops Grown Under Cover	4.3	4.0	3.4
General Farm Primarily Crop	28.1	24.7	24.1
<b>Agricultural Production/Livestock</b>	<b>24.0</b>	<b>24.7</b>	<b>27.0</b>
Beef Cattle Feed Lots	1.0	1.1	0.3
Beef Cattle Except Feed Lots	3.6	2.9	3.3
Dairy Farms	10.6	9.0	15.3
Chicken Eggs	3.0	1.3	2.4
Turkey & Turkey Eggs	0.1	0.1	0.9
Other Livestock	5.7	10.3	4.8
<b>Total Agricultural Services</b>	<b>142.1</b>	<b>169.6</b>	<b>159.8</b>
Soil Preparation Services	0.6	0.8	1.6
Crop Services	45.7	52.0	48.3
Plant Cultivate & Protection	7.0	7.4	5.7
Harvest Primarily by Machine	3.4	6.1	6.9
Preparation Services for Market	33.5	37.3	34.1
Cotton Ginning	1.8	1.2	1.6
Total Farm Labor & Management	95.8	116.8	109.9
Farm Labor Contractors	86.9	104.6	101.5
Farm Management Services	8.9	12.2	8.4

## Average Hourly Earnings (In dollars per hour)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>8.12</b>	<b>8.12</b>	<b>7.63</b>
<b>Total Agricultural Production/Crops</b>	<b>8.03</b>	<b>8.10</b>	<b>7.23</b>
Cash Grains	8.71	9.04	7.46
Rice	8.86	9.25	7.74
Other Cash Grains	8.56	8.83	7.17
Field Crops Except Grains	8.07	8.02	6.86
Cotton	7.64	7.31	6.77
Other Field Crops	8.50	8.73	6.96
Vegetables and Melons	8.04	7.91	7.55
Total Fruits and Tree Nuts	7.68	7.87	6.97
Berries	7.08	7.73	6.81
Grapes	7.84	8.14	7.14
Tree Nuts	7.60	7.95	6.99
Citrus Fruits	8.00	7.89	7.10
Deciduous Tree Fruit	7.47	7.64	6.79
Other Fruits & Nuts	8.11	7.87	6.98
Total Horticultural Specialties	8.30	8.24	7.74
Ornamental Floral & Nursery	8.22	8.33	7.35
Food Crops Grown Under Cover	8.39	8.15	8.14
General Farm Primarily Crop	7.40	7.51	6.79
<b>Agricultural Production/Livestock</b>	<b>7.84</b>	<b>7.79</b>	<b>7.61</b>
Beef Cattle Feed Lots	7.93	7.79	7.27
Beef Cattle Except Feed Lots	7.72	7.78	8.17
Dairy Farms	8.05	8.00	7.97
Chicken Eggs	6.87	7.03	7.08
Turkey & Turkey Eggs	7.95	7.95	7.40
Other Livestock	8.52	8.22	7.77
<b>Total Agricultural Services</b>	<b>8.49</b>	<b>8.48</b>	<b>8.05</b>
Soil Preparation Services	8.91	8.57	8.92
Crop Services	8.59	8.77	8.01
Plant Cultivate & Protection	8.54	8.68	7.92
Harvest Primarily by Machine	8.38	8.74	7.97
Preparation Services for Market	8.07	8.10	7.58
Cotton Ginning	9.39	9.57	8.59
Total Farm Labor & Management	7.97	8.11	7.23
Farm Labor Contractors	7.59	7.88	6.84
Farm Management Services	8.34	8.34	7.62

# CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>56.6</b>	<b>64.6</b>	<b>58.7</b>
<b>Total Agricultural Production/Crops</b>	<b>32.4</b>	<b>41.7</b>	<b>33.8</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	2.4	2.5	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	2.4	2.5	0.2
Vegetables and Melons	10.9	12.8	13.6
Total Fruits and Tree Nuts	5.8	14.4	8.9
Berries	3.4	5.9	6.9
Grapes	0.6	0.0	1.1
Tree Nuts	0.0	0.2	0.0
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.8	1.1	0.7
Other Fruits & Nuts	1.0	7.2	0.2
Total Horticultural Specialties	13.2	11.9	9.1
Ornamental Floral & Nursery	9.7	8.9	7.0
Food Crops Grown Under Cover	3.5	3.0	2.1
General Farm Primarily Crop	0.1	0.1	2.0
<b>Agricultural Production/Livestock</b>	<b>0.2</b>	<b>0.5</b>	<b>1.0</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.4
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.1	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.2	0.4	0.3
<b>Total Agricultural Services</b>	<b>24.0</b>	<b>22.4</b>	<b>23.9</b>
Soil Preparation Services	0.1	0.0	0.4
Crop Services	9.8	10.3	10.1
Plant Cultivate & Protection	0.9	1.5	0.3
Harvest Primarily by Machine	2.0	1.5	2.2
Preparation Services for Market	6.9	7.3	7.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	14.1	12.1	13.4
Farm Labor Contractors	10.2	9.2	12.5
Farm Management Services	3.9	2.9	0.9

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>8.37</b>	<b>8.11</b>	<b>7.80</b>
<b>Total Agricultural Production/Crops</b>	<b>8.02</b>	<b>7.90</b>	<b>7.46</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	8.27	8.45	6.86
Cotton	na	na	na
Other Field Crops	8.27	8.45	6.86
Vegetables and Melons	8.56	7.99	7.93
Total Fruits and Tree Nuts	7.76	7.80	7.29
Berries	7.65	8.16	6.92
Grapes	8.21	na	7.00
Tree Nuts	na	7.55	na
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.17	7.31	7.21
Other Fruits & Nuts	8.01	8.19	8.04
Total Horticultural Specialties	8.49	8.30	8.03
Ornamental Floral & Nursery	8.45	8.32	7.56
Food Crops Grown Under Cover	8.52	8.28	8.50
General Farm Primarily Crop	7.01	6.97	7.19
<b>Agricultural Production/Livestock</b>	<b>8.79</b>	<b>7.81</b>	<b>7.63</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	7.97
Dairy Farms	na	na	7.85
Chicken Eggs	na	7.00	7.00
Turkey & Turkey Eggs	na	na	7.30
Other Livestock	8.79	8.61	8.02
<b>Total Agricultural Services</b>	<b>8.31</b>	<b>8.62</b>	<b>8.30</b>
Soil Preparation Services	8.24	na	9.25
Crop Services	8.42	8.69	8.32
Plant Cultivate & Protection	8.21	8.39	8.08
Harvest Primarily by Machine	8.40	9.01	8.36
Preparation Services for Market	8.64	8.67	8.53
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.27	8.55	7.33
Farm Labor Contractors	7.90	8.39	6.93
Farm Management Services	8.63	8.71	7.73

# DESERT AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>33.3</b>	<b>33.3</b>	<b>30.7</b>
<b>Total Agricultural Production/Crops</b>	<b>16.5</b>	<b>15.8</b>	<b>11.1</b>
Cash Grains	1.0	1.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	1.0	1.0	0.1
Field Crops Except Grains	2.2	3.3	1.8
Cotton	0.0	0.0	0.0
Other Field Crops	2.2	3.3	1.8
Vegetables and Melons	3.9	2.6	2.6
Total Fruits and Tree Nuts	3.1	4.0	3.2
Berries	0.0	0.0	0.0
Grapes	0.1	0.3	0.9
Tree Nuts	0.1	2.2	0.2
Citrus Fruits	0.1	0.1	0.8
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	2.8	1.4	1.2
Total Horticultural Specialties	0.8	1.7	1.5
Ornamental Floral & Nursery	0.8	1.7	1.4
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	5.5	3.2	1.9
<b>Agricultural Production/Livestock</b>	<b>4.0</b>	<b>2.4</b>	<b>5.5</b>
Beef Cattle Feed Lots	0.0	0.0	0.1
Beef Cattle Except Feed Lots	1.5	0.1	0.6
Dairy Farms	1.3	1.6	2.9
Chicken Eggs	0.2	0.3	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	1.0	0.4	0.7
<b>Total Agricultural Services</b>	<b>12.8</b>	<b>15.1</b>	<b>14.1</b>
Soil Preparation Services	0.0	0.3	0.2
Crop Services	3.5	4.7	4.6
Plant Cultivate & Protection	0.1	1.6	0.5
Harvest Primarily by Machine	0.1	0.1	1.3
Preparation Services for Market	2.8	2.8	2.7
Cotton Ginning	0.5	0.2	0.1
Total Farm Labor & Management	9.3	10.1	9.3
Farm Labor Contractors	8.9	10.0	8.7
Farm Management Services	0.4	0.1	0.6

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>8.02</b>	<b>8.19</b>	<b>7.47</b>
<b>Total Agricultural Production/Crops</b>	<b>7.90</b>	<b>8.19</b>	<b>7.02</b>
Cash Grains	8.94	8.94	6.77
Rice	na	na	na
Other Cash Grains	8.94	8.94	6.77
Field Crops Except Grains	8.39	8.77	6.77
Cotton	na	na	na
Other Field Crops	8.39	8.77	6.77
Vegetables and Melons	7.22	7.70	7.06
Total Fruits and Tree Nuts	7.96	8.31	6.75
Berries	na	na	na
Grapes	7.74	8.59	7.06
Tree Nuts	7.63	8.58	6.20
Citrus Fruits	8.44	8.40	7.11
Deciduous Tree Fruit	na	na	6.68
Other Fruits & Nuts	8.03	7.66	6.71
Total Horticultural Specialties	8.10	8.18	7.53
Ornamental Floral & Nursery	8.10	8.18	7.06
Food Crops Grown Under Cover	na	na	8.00
General Farm Primarily Crop	6.77	7.25	7.25
<b>Agricultural Production/Livestock</b>	<b>7.81</b>	<b>7.82</b>	<b>7.66</b>
Beef Cattle Feed Lots	na	na	7.13
Beef Cattle Except Feed Lots	7.56	7.76	7.97
Dairy Farms	8.15	8.12	8.91
Chicken Eggs	6.83	7.05	6.88
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.71	8.33	7.43
<b>Total Agricultural Services</b>	<b>8.35</b>	<b>8.55</b>	<b>7.73</b>
Soil Preparation Services	na	9.01	8.60
Crop Services	8.55	8.63	7.43
Plant Cultivate & Protection	8.90	8.96	7.42
Harvest Primarily by Machine	8.40	8.91	6.90
Preparation Services for Market	7.75	7.75	6.90
Cotton Ginning	9.16	8.91	8.50
Total Farm Labor & Management	8.16	8.02	7.16
Farm Labor Contractors	7.88	7.70	7.03
Farm Management Services	8.43	8.33	7.28

# NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>12.3</b>	<b>21.8</b>	<b>15.6</b>
<b>Total Agricultural Production/Crops</b>	<b>8.4</b>	<b>16.4</b>	<b>11.2</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.0
Vegetables and Melons	0.8	3.0	0.3
Total Fruits and Tree Nuts	5.5	11.9	9.2
Berries	0.0	0.0	0.0
Grapes	4.9	11.1	8.0
Tree Nuts	0.0	0.0	0.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.6	0.7	0.9
Other Fruits & Nuts	0.0	0.1	0.1
Total Horticultural Specialties	0.9	1.5	1.4
Ornamental Floral & Nursery	0.1	0.5	1.2
Food Crops Grown Under Cover	0.8	1.0	0.2
General Farm Primarily Crop	1.2	0.0	0.3
<b>Agricultural Production/Livestock</b>	<b>3.0</b>	<b>2.4</b>	<b>1.6</b>
Beef Cattle Feed Lots	0.1	0.1	0.0
Beef Cattle Except Feed Lots	0.0	1.4	0.2
Dairy Farms	1.7	0.7	0.9
Chicken Eggs	0.7	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.5	0.2	0.3
<b>Total Agricultural Services</b>	<b>0.9</b>	<b>3.0</b>	<b>2.8</b>
Soil Preparation Services	0.0	0.0	0.1
Crop Services	0.0	0.1	0.2
Plant Cultivate & Protection	0.0	0.0	0.0
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.0	0.1	0.2
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	0.9	2.9	2.6
Farm Labor Contractors	0.0	0.0	0.5
Farm Management Services	0.9	2.9	2.1

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>8.43</b>	<b>8.13</b>	<b>7.67</b>
<b>Total Agricultural Production/Crops</b>	<b>8.35</b>	<b>8.22</b>	<b>7.34</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	na
Cotton	na	na	na
Other Field Crops	na	na	na
Vegetables and Melons	8.57	8.28	8.08
Total Fruits and Tree Nuts	8.30	7.88	7.32
Berries	na	na	na
Grapes	8.31	8.37	8.23
Tree Nuts	na	na	7.37
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.29	8.23	6.99
Other Fruits & Nuts	na	7.05	6.67
Total Horticultural Specialties	8.48	8.50	7.62
Ornamental Floral & Nursery	8.70	8.98	7.36
Food Crops Grown Under Cover	8.26	8.02	7.87
General Farm Primarily Crop	8.03	na	6.35
<b>Agricultural Production/Livestock</b>	<b>7.88</b>	<b>7.68</b>	<b>7.69</b>
Beef Cattle Feed Lots	8.17	7.80	na
Beef Cattle Except Feed Lots	na	7.83	8.20
Dairy Farms	7.83	7.15	7.20
Chicken Eggs	7.12	na	7.55
Turkey & Turkey Eggs	na	na	7.53
Other Livestock	8.41	7.95	7.98
<b>Total Agricultural Services</b>	<b>9.06</b>	<b>8.50</b>	<b>7.98</b>
Soil Preparation Services	na	na	9.06
Crop Services	na	8.03	7.49
Plant Cultivate & Protection	na	na	na
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	na	8.03	7.49
Cotton Ginning	na	na	na
Total Farm Labor & Management	9.06	8.96	7.40
Farm Labor Contractors	na	na	6.79
Farm Management Services	9.06	8.96	8.00

na = not available

# SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>55.1</b>	<b>65.1</b>	<b>56.4</b>
<b>Total Agricultural Production/Crops</b>	<b>36.9</b>	<b>40.1</b>	<b>39.2</b>
Cash Grains	0.0	0.0	0.2
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.2
Field Crops Except Grains	0.7	1.3	0.3
Cotton	0.0	0.0	0.1
Other Field Crops	0.7	1.3	0.2
Vegetables and Melons	2.5	5.2	8.2
Total Fruits and Tree Nuts	14.1	12.6	10.9
Berries	5.9	6.7	5.8
Grapes	4.9	0.0	1.6
Tree Nuts	0.5	0.0	0.1
Citrus Fruits	0.4	1.3	1.8
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	2.4	4.6	1.5
Total Horticultural Specialties	14.5	16.0	15.8
Ornamental Floral & Nursery	14.5	16.0	15.0
Food Crops Grown Under Cover	0.0	0.0	0.8
General Farm Primarily Crop	5.1	5.0	3.8
<b>Agricultural Production/Livestock</b>	<b>4.7</b>	<b>7.5</b>	<b>2.0</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.4
Dairy Farms	0.2	0.2	0.2
Chicken Eggs	1.6	0.4	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	2.9	6.9	1.0
<b>Total Agricultural Services</b>	<b>13.5</b>	<b>17.5</b>	<b>15.2</b>
Soil Preparation Services	0.1	0.0	0.1
Crop Services	2.7	3.6	2.9
Plant Cultivate & Protection	0.7	0.2	0.4
Harvest Primarily by Machine	0.0	1.1	0.3
Preparation Services for Market	2.0	2.3	2.2
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	10.7	13.9	12.2
Farm Labor Contractors	9.5	10.5	11.2
Farm Management Services	1.2	3.4	1.0

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>8.17</b>	<b>8.16</b>	<b>7.69</b>
<b>Total Agricultural Production/Crops</b>	<b>8.06</b>	<b>8.16</b>	<b>7.16</b>
Cash Grains	na	na	7.02
Rice	na	na	na
Other Cash Grains	na	na	7.02
Field Crops Except Grains	8.70	8.91	6.82
Cotton	na	na	6.75
Other Field Crops	8.70	8.91	6.89
Vegetables and Melons	8.57	8.34	7.33
Total Fruits and Tree Nuts	7.51	7.54	7.08
Berries	6.51	6.48	6.94
Grapes	7.57	na	6.85
Tree Nuts	7.32	na	7.18
Citrus Fruits	7.67	7.93	7.60
Deciduous Tree Fruit	na	na	6.79
Other Fruits & Nuts	8.48	8.20	7.14
Total Horticultural Specialties	8.29	8.58	7.81
Ornamental Floral & Nursery	8.29	8.58	7.08
Food Crops Grown Under Cover	na	na	8.53
General Farm Primarily Crop	7.22	7.41	6.91
<b>Agricultural Production/Livestock</b>	<b>7.98</b>	<b>8.10</b>	<b>8.00</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.17
Dairy Farms	8.43	8.49	8.54
Chicken Eggs	6.49	7.02	6.90
Turkey & Turkey Eggs	na	na	na
Other Livestock	9.02	8.78	8.38
<b>Total Agricultural Services</b>	<b>8.46</b>	<b>8.22</b>	<b>7.92</b>
Soil Preparation Services	9.29	na	8.41
Crop Services	8.21	8.42	7.85
Plant Cultivate & Protection	8.41	8.60	7.84
Harvest Primarily by Machine	na	8.83	7.86
Preparation Services for Market	8.00	7.82	7.84
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.89	8.03	7.50
Farm Labor Contractors	7.93	8.12	7.44
Farm Management Services	7.84	7.94	7.56

na = not available



# SAN JOAQUIN AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>171.9</b>	<b>228.4</b>	<b>184.1</b>
<b>Total Agricultural Production/Crops</b>	<b>77.4</b>	<b>115.8</b>	<b>72.1</b>
Cash Grains	1.0	0.4	0.4
Rice	0.0	0.0	0.1
Other Cash Grains	1.0	0.4	0.3
Field Crops Except Grains	5.3	7.1	9.6
Cotton	2.5	3.9	7.0
Other Field Crops	2.8	3.2	2.6
Vegetables and Melons	18.0	45.8	5.6
Total Fruits and Tree Nuts	29.4	44.3	39.0
Berries	0.0	0.2	0.1
Grapes	13.7	25.0	16.4
Tree Nuts	4.7	6.8	6.6
Citrus Fruits	0.9	0.5	3.3
Deciduous Tree Fruit	3.9	3.9	8.4
Other Fruits & Nuts	6.2	7.9	4.2
Total Horticultural Specialties	8.1	6.3	4.6
Ornamental Floral & Nursery	8.1	6.3	4.5
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	15.6	11.9	12.9
<b>Agricultural Production/Livestock</b>	<b>9.9</b>	<b>10.1</b>	<b>15.3</b>
Beef Cattle Feed Lots	0.9	1.0	0.2
Beef Cattle Except Feed Lots	1.3	1.0	1.2
Dairy Farms	6.1	5.3	10.6
Chicken Eggs	0.5	0.5	0.6
Turkey & Turkey Eggs	0.1	0.1	0.7
Other Livestock	1.0	2.2	2.0
<b>Total Agricultural Services</b>	<b>84.6</b>	<b>102.5</b>	<b>96.7</b>
Soil Preparation Services	0.4	0.5	0.7
Crop Services	25.4	28.1	26.8
Plant Cultivate & Protection	5.0	3.8	3.9
Harvest Primarily by Machine	1.3	3.4	2.8
Preparation Services for Market	17.8	19.9	18.6
Cotton Ginning	1.3	1.0	1.5
Total Farm Labor & Management	58.8	73.9	69.2
Farm Labor Contractors	56.3	71.0	65.4
Farm Management Services	2.5	2.9	3.8

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>8.01</b>	<b>7.98</b>	<b>7.70</b>
<b>Total Agricultural Production/Crops</b>	<b>7.79</b>	<b>8.03</b>	<b>7.13</b>
Cash Grains	8.36	8.75	7.64
Rice	na	na	7.87
Other Cash Grains	8.36	8.75	7.40
Field Crops Except Grains	8.02	8.05	6.82
Cotton	7.64	7.31	6.78
Other Field Crops	8.40	8.79	6.86
Vegetables and Melons	7.67	7.68	7.18
Total Fruits and Tree Nuts	7.72	8.10	6.75
Berries	na	8.54	6.57
Grapes	7.66	8.09	6.79
Tree Nuts	7.97	8.30	6.86
Citrus Fruits	7.88	8.03	6.90
Deciduous Tree Fruit	7.08	7.54	6.55
Other Fruits & Nuts	8.02	8.09	6.83
Total Horticultural Specialties	7.55	7.60	7.84
Ornamental Floral & Nursery	7.55	7.60	7.60
Food Crops Grown Under Cover	na	na	8.08
General Farm Primarily Crop	7.43	7.98	6.58
<b>Agricultural Production/Livestock</b>	<b>7.85</b>	<b>7.76</b>	<b>7.62</b>
Beef Cattle Feed Lots	7.68	7.78	7.40
Beef Cattle Except Feed Lots	7.83	7.91	8.69
Dairy Farms	8.31	8.01	7.91
Chicken Eggs	7.05	7.03	7.07
Turkey & Turkey Eggs	7.95	7.95	7.36
Other Livestock	8.27	7.85	7.30
<b>Total Agricultural Services</b>	<b>8.38</b>	<b>8.14</b>	<b>8.35</b>
Soil Preparation Services	9.19	8.12	9.77
Crop Services	8.51	8.69	8.22
Plant Cultivate & Protection	8.48	8.55	8.34
Harvest Primarily by Machine	8.34	8.22	8.84
Preparation Services for Market	7.60	7.77	7.04
Cotton Ginning	9.61	10.23	8.67
Total Farm Labor & Management	7.44	7.62	7.05
Farm Labor Contractors	7.12	7.50	6.58
Farm Management Services	7.76	7.74	7.52

# SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>23.9</b>	<b>29.1</b>	<b>26.3</b>
<b>Total Agricultural Production/Crops</b>	<b>15.4</b>	<b>18.2</b>	<b>17.7</b>
Cash Grains	1.7	2.0	1.7
Rice	0.6	1.4	1.3
Other Cash Grains	1.1	0.6	0.4
Field Crops Except Grains	0.3	0.5	0.8
Cotton	0.0	0.0	0.0
Other Field Crops	0.3	0.5	0.8
Vegetables and Melons	8.2	4.1	1.4
Total Fruits and Tree Nuts	4.0	5.8	8.9
Berries	0.0	0.0	0.0
Grapes	0.3	0.2	1.0
Tree Nuts	1.1	3.6	3.1
Citrus Fruits	0.0	0.1	0.1
Deciduous Tree Fruit	1.1	1.6	3.0
Other Fruits & Nuts	1.5	0.3	1.7
Total Horticultural Specialties	0.6	1.3	1.7
Ornamental Floral & Nursery	0.6	1.3	1.6
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	0.6	4.5	3.2
<b>Agricultural Production/Livestock</b>	<b>2.2</b>	<b>1.8</b>	<b>1.6</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.8	0.4	0.5
Dairy Farms	1.3	1.2	0.6
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.1	0.2	0.5
<b>Total Agricultural Services</b>	<b>6.3</b>	<b>9.1</b>	<b>7.0</b>
Soil Preparation Services	0.0	0.0	0.1
Crop Services	4.3	5.2	3.7
Plant Cultivate & Protection	0.3	0.3	0.6
Harvest Primarily by Machine	0.0	0.0	0.3
Preparation Services for Market	4.0	4.9	2.8
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	2.0	3.9	3.2
Farm Labor Contractors	2.0	3.9	3.2
Farm Management Services	0.0	0.0	0.0

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Nov 1999	Oct 1999	Nov 1998
<b>Total Agriculture</b>	<b>7.90</b>	<b>8.08</b>	<b>7.45</b>
<b>Total Agricultural Production/Crops</b>	<b>8.13</b>	<b>8.17</b>	<b>7.23</b>
Cash Grains	8.62	9.03	7.56
Rice	8.86	9.25	7.61
Other Cash Grains	8.37	8.80	7.50
Field Crops Except Grains	8.75	8.72	7.43
Cotton	na	na	na
Other Field Crops	8.75	8.72	7.43
Vegetables and Melons	7.66	7.49	7.69
Total Fruits and Tree Nuts	7.59	7.52	6.79
Berries	na	na	na
Grapes	7.55	7.51	6.90
Tree Nuts	7.46	7.38	7.33
Citrus Fruits	na	7.20	6.77
Deciduous Tree Fruit	7.34	7.46	6.49
Other Fruits & Nuts	8.02	8.05	6.48
Total Horticultural Specialties	8.22	8.30	7.65
Ornamental Floral & Nursery	8.22	8.30	7.44
Food Crops Grown Under Cover	na	na	7.85
General Farm Primarily Crop	7.93	7.95	6.46
<b>Agricultural Production/Livestock</b>	<b>7.74</b>	<b>7.88</b>	<b>7.63</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	7.76	7.61	8.00
Dairy Farms	7.54	8.23	7.38
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.93	7.79	7.50
<b>Total Agricultural Services</b>	<b>7.82</b>	<b>8.21</b>	<b>7.50</b>
Soil Preparation Services	na	na	8.45
Crop Services	8.54	8.74	7.82
Plant Cultivate & Protection	8.70	8.90	7.90
Harvest Primarily by Machine	na	na	7.91
Preparation Services for Market	8.37	8.57	7.65
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.11	7.68	6.24
Farm Labor Contractors	7.11	7.68	6.24
Farm Management Services	na	na	na

## DATA NOTES

### Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12<sup>th</sup> calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

### Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **Agricultural Services employment survey data may be recalculated; historical trend information is used to adjust sample data when low response rates occur.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between regional current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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